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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/905,114

DATE: 07/26/2001
TIME: 09:32:08

Input Set : A:\PTO_VSK.txt
Output Set: N:\CRF3\07262001\I905114.raw

ENTERED

3 <110> APPLICANT: ZHANG, HUANMIN
 4 AX, ROY L
 5 BELLIN, MARY E
 7 <120> TITLE OF INVENTION: ISOLATED POLYNUCLEOTIDE SEQUENCES ENCODING A FERTILITY
 ASSOCIATED ANTIGEN
 9 <130> FILE REFERENCE: 210707US20
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/905,114
 C--> 11 <141> CURRENT FILING DATE: 2001-07-14
 11 <150> PRIOR APPLICATION NUMBER: US 60/218,140
 12 <151> PRIOR FILING DATE: 2000-07-14
 14 <160> NUMBER OF SEQ ID NOS: 9
 16 <170> SOFTWARE: PatentIn version 3.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 592
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Bos sp.
 23 <220> FEATURE:
 24 <221> NAME/KEY: CDS
 25 <222> LOCATION: (1)..(591)
 26 <223> OTHER INFORMATION:
 29 <400> SEQUENCE: 1
 30 gag aag cta aac gga aat tca aga aaa ggc ata aca tac aac tat gtg 48
 31 Glu Lys Leu Asn Gly Asn Ser Arg Lys Gly Ile Thr Tyr Asn Tyr Val
 32 1 5 10 15
 34 att agc tct cgc ctt gga aga aac aca tat aaa gaa cag tat gcc ttt 96
 35 Ile Ser Ser Arg Leu Gly Arg Asn Thr Tyr Lys Glu Gln Tyr Ala Phe
 36 20 25 30
 38 ctc tat aaa gaa aag cta gtg tct gta aaa caa agc tac ctc tac cac 144
 39 Leu Tyr Lys Glu Lys Leu Val Ser Val Lys Gln Ser Tyr Leu Tyr His
 40 35 40 45
 42 gac tat cag gct gga gac gca gat gtg ttt tcc agg gaa ccc ttt gtg 192
 43 Asp Tyr Gln Ala Gly Asp Ala Asp Val Phe Ser Arg Glu Pro Phe Val
 44 50 55 60
 46 gtc tgg ttc cag tca ccc tac acc gct gtc aag gac ttc gtg att gtc 240
 47 Val Trp Phe Gln Ser Pro Tyr Thr Ala Val Lys Asp Phe Val Ile Val
 48 65 70 75 80
 50 ccc ctg cac acc acc cct gag aca tcc gtt aga gag att gat gag ctg 288
 51 Pro Leu His Thr Pro Glu Thr Ser Val Arg Glu Ile Asp Glu Leu
 52 85 90 95
 54 gct gat gtc tac aca gat gtg aaa cgt cgc tgg aat gca gag aat ttc 336
 55 Ala Asp Val Tyr Thr Asp Val Lys Arg Arg Trp Asn Ala Glu Asn Phe
 56 100 105 110
 58 att ttc atg ggt gac ttc aat gct ggc tgc agc tac gtc ccc aag aag 384
 59 Ile Phe Met Gly Asp Phe Asn Ala Gly Cys Ser Tyr Val Pro Lys Lys
 60 115 120 125
 62 gcc tgg aag gac atc cgc ctg agg acg gac ccc aag ttc gtt tgg ctg 432
 63 Ala Trp Lys Asp Ile Arg Leu Arg Thr Asp Pro Lys Phe Val Trp Leu
 64 130 135 140

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66 atc ggg gac caa gag gac acc acg gtc aag aag agc aca aac tgc gcc	480
67 Ile Gly Asp Gln Glu Asp Thr Thr Val Lys Lys Ser Thr Asn Cys Ala	
68 145 150 155 160	
70 tat gac agg atc gtg ctt aga gga caa aat att gtc aac tct ggt ggt	528
71 Tyr Asp Arg Ile Val Leu Arg Gly Gln Asn Ile Val Asn Ser Gly Gly	
72 165 170 175	
74 cct caa tca aac ctc gtc ttt gat ttc cag aaa gct tac agg ttg tct	576
75 Pro Gln Ser Asn Leu Val Phe Asp Phe Gln Lys Ala Tyr Arg Leu Ser	
76 180 185 190	
78 gaa tcg aag gcc ctg g	592
79 Glu Ser Lys Ala Leu	
80 195	
83 <210> SEQ ID NO: 2	
84 <211> LENGTH: 197	
85 <212> TYPE: PRT	
86 <213> ORGANISM: Bos sp.	
88 <400> SEQUENCE: 2	
90 Glu Lys Leu Asn Gly Asn Ser Arg Lys Gly Ile Thr Tyr Asn Tyr Val	
91 1 5 10 15	
94 Ile Ser Ser Arg Leu Gly Arg Asn Thr Tyr Lys Glu Gln Tyr Ala Phe	
95 20 25 30	
98 Leu Tyr Lys Glu Lys Leu Val Ser Val Lys Gln Ser Tyr Leu Tyr His	
99 35 40 45	
102 Asp Tyr Gln Ala Gly Asp Ala Asp Val Phe Ser Arg Glu Pro Phe Val	
103 50 55 60	
106 Val Trp Phe Gln Ser Pro Tyr Thr Ala Val Lys Asp Phe Val Ile Val	
107 65 70 75 80	
110 Pro Leu His Thr Thr Pro Glu Thr Ser Val Arg Glu Ile Asp Glu Leu	
111 85 90 95	
114 Ala Asp Val Tyr Thr Asp Val Lys Arg Arg Trp Asn Ala Glu Asn Phe	
115 100 105 110	
118 Ile Phe Met Gly Asp Phe Asn Ala Gly Cys Ser Tyr Val Pro Lys Lys	
119 115 120 125	
122 Ala Trp Lys Asp Ile Arg Leu Arg Thr Asp Pro Lys Phe Val Trp Leu	
123 130 135 140	
126 Ile Gly Asp Gln Glu Asp Thr Thr Val Lys Lys Ser Thr Asn Cys Ala	
127 145 150 155 160	
130 Tyr Asp Arg Ile Val Leu Arg Gly Gln Asn Ile Val Asn Ser Gly Gly	
131 165 170 175	
134 Pro Gln Ser Asn Leu Val Phe Asp Phe Gln Lys Ala Tyr Arg Leu Ser	
135 180 185 190	
138 Glu Ser Lys Ala Leu	
139 195	
142 <210> SEQ ID NO: 3	
143 <211> LENGTH: 671	
144 <212> TYPE: DNA	
145 <213> ORGANISM: Bos sp.	
147 <400> SEQUENCE: 3	
148 acaacaggat ctgccccata ctgatggaga agctaaacgg aaattcaaga aaaggcataa	60

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150 catacaacta tgtgattagc tctcgccctg gaagaaaac ac atataaagaa cagtagcct 120
 152 ttctctataa agaaaaagcta gtgtctgtaa aacaaagcta cctctaccac gactatcagg 180
 154 ctggagacgc agatgtgtt tccagggaac ccttgggt ctgggtccag tcaccctaca 240
 156 ccgcgtgtcaa ggacttcgtg attgtcccccc tgacacccac ccctgagaca tccgttagag 300
 158 agattgtga gctggctgtat gtctacacag atgtgaaacg tcgctgaaat gcagagaatt 360
 160 tcattttcat gggtgacttc aatgtgtgt gcagctacgt ccccaagaag gcctggaagg 420
 162 acatccgcct gaggacggac cccaaatccg tttgctgtat cggggaccaa gaggacacca 480
 164 cggtaagaa gggcacaac tgcgcctatg acaggatcgt gcttagagga caaaatattg 540
 166 tcaactctgg tggctctcaa tcaaaccctcg tctttgattt ccagaaagct tacagggtgt 600
 168 ctgaatcgaa ggcctggat gtcagcgacc acttccagt tcatcatcat catcatcatg 660
 170 aagaaccatcg a 671
 173 <210> SEQ ID NO: 4
 174 <211> LENGTH: 21
 175 <212> TYPE: DNA
 176 <213> ORGANISM: Artificial Sequence
 178 <220> FEATURE:
 179 <223> OTHER INFORMATION: synthetic DNA
 181 <400> SEQUENCE: 4
 182 cgtgaggagc ttccggcgaga g 21
 185 <210> SEQ ID NO: 5
 186 <211> LENGTH: 26
 187 <212> TYPE: PRT
 188 <213> ORGANISM: Bos sp.
 190 <220> FEATURE:
 191 <221> NAME/KEY: misc_feature
 192 <222> LOCATION: (4)..(4)
 193 <223> OTHER INFORMATION: Xaa is any amino acid
 196 <400> SEQUENCE: 5
 198 Leu Lys Ile Xaa Ser Phe Asn Val Arg Ser Phe Gly Glu Ser Lys Lys
 199 1 5 10 15
 202 Ala Gly Phe Asn Ala Met Arg Val Ile Val
 203 20 25
 206 <210> SEQ ID NO: 6
 207 <211> LENGTH: 26
 208 <212> TYPE: DNA
 209 <213> ORGANISM: Artificial Sequence
 211 <220> FEATURE:
 212 <223> OTHER INFORMATION: synthetic DNA
 214 <400> SEQUENCE: 6
 215 acaacaggat ctgccccata ctgtatg 26
 218 <210> SEQ ID NO: 7
 219 <211> LENGTH: 25
 220 <212> TYPE: DNA
 221 <213> ORGANISM: Artificial Sequence
 223 <220> FEATURE:
 224 <223> OTHER INFORMATION: synthetic DNA
 226 <400> SEQUENCE: 7
 227 tcaactggaa agtggtcgct gacat 25
 230 <210> SEQ ID NO: 8

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231 <211> LENGTH: 27
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: synthetic DNA
238 <400> SEQUENCE: 8
239 acaaacaggat ctgccccata ctgatgg 27
242 <210> SEQ ID NO: 9
243 <211> LENGTH: 57
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: synthetic DNA
250 <400> SEQUENCE: 9
251 tcatggttct tcatgatgat gatgatgatg aactggaaag tggtcgctga catccag 57

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5